SECTION 06 10 00 ROUGH CARPENTRY

PART 1 - GENERAL

1.1 DESCRIPTION:

Section specifies wood blocking.

1.2 RELATED WORK:

- A. Milled woodwork: Section 06 20 00, FINISH CARPENTRY.
- B. Gypsum sheathing: Section 09 29 00, GYPSUM BOARD.
- C. Cement board sheathing: Section 06 16 63, CEMENTITIOUS SHEATHING.

1.3 SUMBITTALS:

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings showing framing connection details, fasteners, connections and dimensions.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING:

- A. Protect lumber and other products from dampness both during and after delivery at site.
- B. Pile lumber in stacks in such manner as to provide air circulation around surfaces of each piece.
- C. Stack plywood and other board products so as to prevent warping.
- D. Locate stacks on well drained areas, supported at least 150 mm (6 inches) above grade and cover with well ventilated sheds having firmly constructed over hanging roof with sufficient end wall to protect lumber from driving rain.

1.5 APPLICABLE PUBLICATIONS:

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in the text by basic designation only.
- B. American Forest and Paper Association (AFPA):

 National Design Specification for Wood Construction

NDS-05......Conventional Wood Frame Construction

C. American Institute of Timber Construction (AITC):

A190.1-02.....Structural Glued Laminated Timber

D. American Society of Mechanical Engineers (ASME):

B18.2.1A-96(R2005).....Square and Hex Bolts and Screws

B18.2.2-87(R2005)......Square and Hex Nuts

B18.6.1-81 (R97)........Wood Screws

B18.6.4-98(R2005).....Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws

E. American Plywood Association (APA):

Veterans Affairs Medical Center

	E30-03Engineered Wood Construction Guide
F.	American Society for Testing And Materials (ASTM):
	A47-99(R2004)Ferritic Malleable Iron Castings
	A48-03Gray Iron Castings
	A653/A653M-07Steel Sheet Zinc-Coated (Galvanized) or Zinc-
	Iron Alloy Coated (Galvannealed) by the Hot Dip
	Process
	C954-04Steel Drill Screws for the Application of Gypsum
	Board or Metal Plaster Bases to Steel Studs from
	0.033 inch (2.24 mm) to 0.112-inch (2.84 mm) in
	thickness
	C1002-04Steel Self-Piercing Tapping Screws for the
	Application of Gypsum Panel Products or Metal
	Plaster Bases to Wood Studs or Metal Studs
	D143-94(R2004)Small Clear Specimens of Timber, Method of
	Testing
	D1760-01Pressure Treatment of Timber Products
	D2559-04Adhesives for Structural Laminated Wood Products
	for Use Under Exterior (Wet Use) Exposure
	Conditions
	D3498-03Adhesives for Field-Gluing Plywood to Lumber
	Framing for Floor Systems
	F844-07Washers, Steel, Plan (Flat) Unhardened for
	General Use
	F1667-05Nails, Spikes, and Staples
G.	Federal Specifications (Fed. Spec.):
	MM-L-736CLumber; Hardwood
Н.	Commercial Item Description (CID):
	A-A-55615Shield, Expansion (Wood Screw and Lag Bolt Self
	Threading Anchors)
I.	Military Specification (Mil. Spec.):
	MIL-L-19140ELumber and Plywood, Fire-Retardant Treated
J.	Truss Plate Institute (TPI):
	TPI-85Metal Plate Connected Wood Trusses
К.	U.S. Department of Commerce Product Standard (PS)
	PS 1-95Construction and Industrial Plywood
	PS 20-05American Softwood Lumber Standard
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PART 2 - PRODUCTS

2.1 LUMBER:

A. Lumber Other Than Structural:

- Unless otherwise specified, species graded under the grading rules of an inspection agency approved by Board of Review, American Lumber Standards Committee.
- Furring, blocking, nailers and similar items 100 mm (4 inches) and narrower Standard Grade; and, members 150 mm (6 inches) and wider, Number 2 Grade.
- B. Moisture Content:
 - 1. At time of delivery and maintained at the site.
 - 2. Boards and lumber 50 mm (2 inches) and less in thickness: 19 percent or less.
 - 3. Lumber over 50 mm (2 inches) thick: 25 percent or less.

2.2 PLYWOOD

- A. Comply with Prod. Std., PS 1.
- B. Bear the mark of a recognized association or independent inspection agency that maintains continuing control over quality of plywood which identifies compliance by veneer grade, group number, span rating where applicable, and glue type.
- C. Sheathing:
 - 1. APA rated Exposure 1 or Exterior; panel grade CD or better.
 - 2. Roof sheathing:
 - a. Minimum 18 mm (23/32 inch) thick or span rating of 48/24 for supports 600 mm (24 inches) on center.

2.3 ROUGH HARDWARE AND ADHESIVES:

- A. Anchor Bolts:
 - 1. ASME B18.2.1 and ANSI B18.2.2 galvanized, 13 mm (1/2 inch) unless shown otherwise.
 - 2. Extend at least 200 mm (8 inches) into masonry or concrete with ends bent 50 mm (2 inches).
- B. Miscellaneous Bolts: Expansion Bolts: C1D, A-A-55615; lag bolt, long enough to extend at least 65 mm (2-1/2 inches) into masonry or concrete. Use 13 mm (1/2 inch) bolt unless shown otherwise.
- C. Washers
 - 1. ASTM F844.
 - 2. Use zinc or cadmium coated steel or cast iron for washers exposed to weather.
- D. Screws:
 - 1. Wood to Wood: ANSI B18.6.1 or ASTM C1002.
 - 2. Wood to Steel: ASTM C954, or ASTM C1002.
- E. Nails:

- Size and type best suited for purpose unless noted otherwise. Use aluminum-alloy nails, plated nails, or zinc-coated nails, for nailing wood work exposed to weather and on roof blocking.
- 2. ASTM F1667:
 - a. Common: Type I, Style 10.
 - b. Concrete: Type I, Style 11.
 - c. Barbed: Type I, Style 26.
 - d. Underlayment: Type I, Style 25.
 - e. Masonry: Type I, Style 27.
 - f. Use special nails designed for use with ties, strap anchors, framing connectors, joists hangers, and similar items. Nails not less than 32 mm (1-1/4 inches) long, 8d and deformed or annular ring shank.

PART 3 - EXECUTION

3.1 INSTALLATION OF FRAMING AND MISCELLANEOUS WOOD MEMBERS:

- A. Conform to applicable requirements of the following:
 - 1. AFPA National Design Specification for Wood Construction for timber connectors.
 - 2. APA for installation of plywood or structural use panels.
- B. Fasteners:
 - 1. Drill Screws to steel less than 2.84 mm (0.112 inch) thick.
 - a. ASTM C1002 for steel less than 0.84 mm (0.033 inch) thick.
 - b. ASTM C 954 for steel over 0.84 mm (0.033 inch) thick.
 - 2. Power actuated drive pins may be used where practical to anchor to solid masonry, concrete, or steel.
 - 3. Screws to Join Wood:
 - a. Where shown or option to nails.
 - b. ASTM C1002, sized to provide not less than 25 mm (1 inch) penetration into anchorage member.
 - c. Spaced same as nails.
- C. Blocking Nailers, and Furring:
 - 1. Install furring, blocking, nailers, and grounds where shown.
 - 2. Use longest lengths practicable.
- D. Sheathing:
 - 1. Use plywood or structural-use panels for sheathing.
 - 2. Lay panels with joints staggered, with edge and ends 3 mm (1/8 inch) apart and nailed over bearings as specified.
 - 3. Set nails not less than 9 mm (3/8 inch) from edges.
 - 4. Install 50 mm by 100 mm (2 inch by 4 inch) blocking spiked between joists, rafters and studs to support edge or end joints of panels.

5. Match and align sheathing which is an extension of work in place to existing.

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